

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1(a)	Name of the Mine	<b>Adityana Limestone Mine</b>
1(b)	Name of Inspecting Officer & Designation	Sanjay M. Girhe, Sr. Mining Geologist
1(c)	Accompanying Mines Representatives	Sh. Yogeshbhai Tanna, lessee representative
1(d)	Type of Inspection	MCDR
1(e)	Date of Inspection	27.07.2018
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	32.78 Ha. (Govt. Waste Land), Survey No-190/42 Forest- Nil
3	Mine code	38GUJ08274
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/7742/2011
5	Name of the lessee, Address, phone, email and fax number	<b>Shri Sureshbhai Hamir Bhai Rathod</b> <b>Legal Heir of Late Shri Hamir Bhai Harjibhai Kutana</b> Address :-Village & Post-Amardad Taluka-Ranavav-360560 Dist.-Porbandar, Gujarat (India) Phone-+91-9825265808 Email:- sureshhamirathod@gmail.com
6	Village	Amardad
7	Taluka/Mandal	Ranavav
8	District	Porbandar
9	Pin code	360560
10	State	Gujarat
11	Post office	Ranavav
12	Nearest police station	Ranavav
13	Nearest Railway station	Ranavav
14	Date of Grant of Mining Lease	10.02.1969
15	Date of Execution	10.02.1969
16	Date of opening of Mine	April-1982
17	Date of first Renewal, if applicable and its period & expiry	ML renewal granted vide order No-MCR/1588(K-11)896 CHH dtd 14.08.92 for 20 yrs from 10.02.89 to 09.02.09
18	Date of second Renewal, if applicable and its period & expiry	Lessee applied on 06.12.2007, Lease period extended up to 31.03.2020 as per MMDR Amendment Act,2015
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Second Renewal:06.12.2007,
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sureshbhai Hamirbhai Rathod , Legal heir of Late Hamir Harji Kutana
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sureshbhai Hamirbhai Rathod , Legal heir of Late Hamir Harji Kutana
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	NA
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri. Doshi Urvil Kumarpal appointed as mining engineer on 07.05.18
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Shri. Manoj Kumar Sharma appointed as geologist on 07.05.18
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Date of Approval of Mining Plan :- Vide letter No. 682(23)(MP-604)/2008-MCCM(N)/UDP dtd 23.10.2008 Vide letter No. 682(23)(MP-604)/2008-MCCM(N)/UDP dtd 05.12.2016 for period of 2016-17 to 2018-19
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in	NA

	approval letter, if any.	
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Semi-Mechanised
30	Captive/Non Captive	Non Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

### **Exploration**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
1a	Backlog of previous year	Not Proposed	NA	Limestone Reserves as per the current approved Modified Mining Plan on 20.06.18
1b	Exploration over lease area for Geological axis 1 or 2.	Not Proposed	NA	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Proposed	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not Proposed	NA	
1e	Balance reserves as on 01.04.2018	<b>In Million tones Limestone</b> Proved-1410761 Probable-876823	<b>In Million tones Limestone</b> Proved-1139350 Probable-1376100	
1f	General remarks of inspecting officer on geology, exploration etc.	Most of the area was excavated, no exploration not done in the past. Exploration proposed in recent approved modified MP.		

### **2.0 Development**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
2a	Location of development w.r.t. lease area	Proposed Pit-1 to be extended further towards South-West direction	Mine working done over the proposed area as well as in other locations also	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches in top soil & in mineral were proposed	Working carried out as per the proposals	No OB encountered in lease area.
2c	Stripping ratio or ore to OB ratio	Not Proposed	Nil	No OB
2d	Quantity of topsoil generation in m <sup>3</sup>	480 CuM	NA	
2e	Quantity of overburden generation in m <sup>3</sup>	Not Applicable	Not Applicable	No OB encountered in lease area.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Development of all working pits not carried out in a systematic manner as per the given proposals.		

### **3.0 Exploitation**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
3a	Number of pits proposed for production	In Pit No-1 as earmarked on all relevant plates	Mine working is done as per the proposals with some variations.	
3b	Quantity of ROM mineral production proposed	286000 MT	254533 MT	
3c	Recovery of saleable/usable mineral from ROM production	80% as Chemical grade 20% as Cement grade	More or less achieved as per the proposals	
3d	Quantity of mineral reject generation	Not Proposed	Nil	
3e	Grade of mineral reject generation and threshold value declared	Not Proposed	Nil	

3f	Quantity of sub-grade mineral generation	Not Proposed	Nil	
3g	Grade of sub-grade mineral generation	Not Proposed	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not Proposed	Nil	
3j	Provision of drilling & blasting in mineral benches	Hole Dia-32mm, spacing - 1.5m, burden-1.5m, use of slurry explosive	Same as per proposal (shallow hole drilling and blasting)	As when required. Rock breaker operation proposed mostly
3k	Provision of mining machineries in mineral benches	Excavator-1.5Cum bucket capacity, Dumpers-17 Tonnes Rock Breaker-1No	Excavator-1.5Cum bucket capacity, Dumpers-17 Tonnes Rock Breaker-1No	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	
3m	Total area covered under excavation/pits	14.60 Ha.	15.245 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	Not Proposed	Nil	No overburden in lease area
3o	Total area put in use under different heads at the end of year	Pit- 14.60 ha. Road-0.50 ha. Others (Mineral Stack & Plantation)-0.12 ha.	Pit- 15.245 ha. Road-0.56 ha Others(Mineral Stack & Plantation)-0.02 ha	
3p	Production of ROM mineral during last five-year period, as applicable	2014-15: Nil	2014-15: Nil	ROM production
		2015-16: Nil	2015-16: Nil	
		2016-17: 89984MT	2016-17: 73600MT	
		2017-18:286000MT	2017-18: 254533MT till Dec-17	
3q	General remarks of inspecting officer on method of mining etc.	No comments		

#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not Proposed	NA	Temporary stacking of top soil proposed. Concurrent use.
4b	Location of topsoil, OB & mineral reject dumps	Not Proposed	NA	
4c	Number of dumps within lease area and outside lease area	Not Proposed	NA	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not Proposed	NA	
4e	Number of active & alive dumps	Not Proposed	Nil	
4f	Number of dead dumps	Not Proposed	Nil	
4g	Number of dumps stabilised	Not Proposed	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Nil	
4i	Length of Retaining wall or garland drain all along dump	Not Proposed	Nil	
4j	Number of settling ponds	Not Proposed	Nil	

4k	Specific comments of inspecting officer	Concurrent use of top soil, no OB, mineral reject encountered during mining operation.
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### **5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposals	Nil	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Proposed	Concurrent use of top soil proposed	
5d	Total area fully reclaimed & rehabilitated	NA	NA	
5e	General remarks of inspecting officer on backfilling, reclamation etc	No comments		

### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20.	Yes	Report submitted as per prescribed format.	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	NA	NA	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Not Proposed	Nil	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	0.005 ha by planting 20 sapling (developing green belt)	50 saplings planted near road & in statutory barriers.	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Environmental monitoring carried out.	
6f	General remarks of inspecting officer on PMCP compliance & progressive	No Comments		

### **7.0 Mineral Conservation**

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed	ROM production- 254533 Tonnes	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	

7c	Different grade of mineral sorted out at mines	Proposed	Yes	
7d	Any beneficiation process at mines	Not Proposed	NA	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wise mineral is being conserved by systematic manual sorting.		

### 8.0 Environment

SN	Item	Proposals (2017-18)	Actual work (2017-18)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	480 CuM	Nil	
8b	Concurrent use or storage of topsoil	Concurrent use proposed	Yes	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not Proposed	Nil	No, OB, Mineral reject encountered
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	20 Sapling proposed to be planted	50 saplings planted	
8g	Survival rate	Not Proposed	NA	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done by tractor mounted water tanker	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No comments		

### 9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
.	Status of submission of Monthly and Annual returns	M.R. Submitted upto – Not submitted A.R. submitted upto- 2017-18 – Not submitted	

S.N	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Party has not submitted online returns for the year 2017-18	NA	During the inspection it was advised to Mine representative to submit the online AR & MR correctly within stipulated time  Further, violations for rules 31(4), 35(2) & 45(5)(c) of MCDR, 2017 were pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	--do--	NA	
9d	Scrutiny of Annual return on afforestation	--do--	NA	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	--do--	NA	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	--do--	NA	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	--do--	NA	
9i	Scrutiny of Annual return on fixed assets	--do--	NA	
9k	Scrutiny of Annual return on mining machineries	--do--	NA	

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - The last inspection of mine was carried out on dtd 09.01.2018 and violations of rules 45(5)(b), 45(5)(b)(c), 33, 55(1)(3) (viii) were pointed out and complied on 06.06.18. This inspection was carried out as MCDR inspections and during inspection violation of rules 31(4), 35(2) & 45(5)(c) were pointed out and accordingly violation letter was issued.

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